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## (54) Reception of multicarrier signals over power lines

(57) An Orthogonal Frequency Division Multiplexed (OFDM) power line communications system comprising a power line for distributing electricity to a plurality of premises and a communication station coupled to the power line at one of the premises, which station uses a

part of the power line external to the premises as a communications medium. The communications station includes a receiver which comprises a clipping system adapted to clip an incoming OFDM data waveform, which includes a regular impulsive noise component, so as to reduce the level of noise on the waveform.

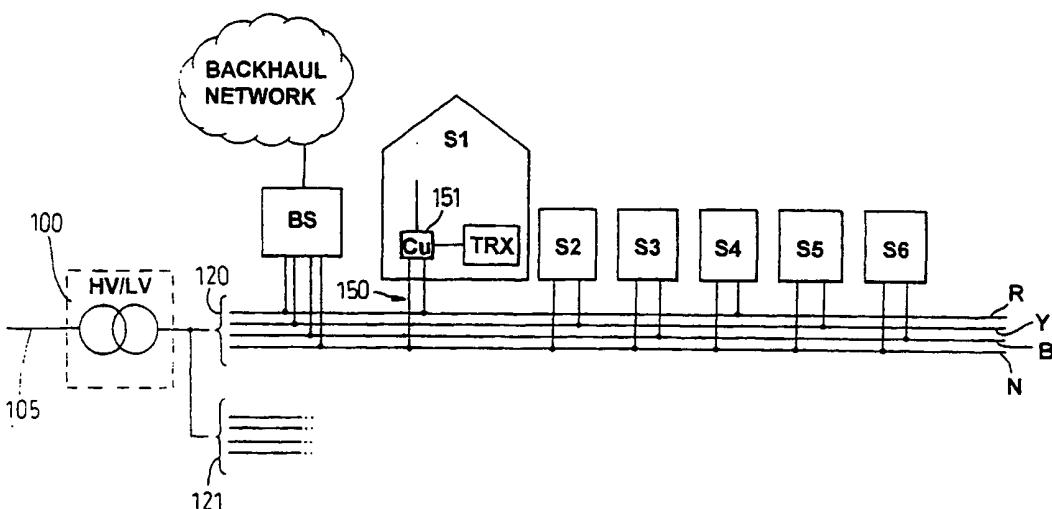


Fig.3



DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.)
X	WO 98 10550 A (TELIA) 12 March 1998 (1998-03-12) * page 3, line 18 – line 31 * -----	1-14	H04L27/26 H04B3/54
E	EP 1 043 874 A (BBC) 11 October 2000 (2000-10-11) * abstract * -----	1-14	
T	WEILIN LIU ET AL.: "Nature of power line medium and design aspects for broadband PLC system" INTERNATIONAL ZÜRICH SEMINAR ON BROADBAND COMMUNICATIONS, 15 – 17 February 2000, pages 185-189, XPO10376458 Piscataway, US * the whole document * -----	1	
TECHNICAL FIELDS SEARCHED (Int.Cl.)			
H04L H04B			
The present search report has been drawn up for all claims			
Place of search  THE HAGUE	Date of completion of the search  11 March 2002	Examiner  Scriven, P	
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.

EP 99 30 7702

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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11-03-2002

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